LIST OF CONTENTS

NUMBER 1-5

1	Computational structures technology: leap frogging into the twenty-first century
33	Problem-dependent preconditioners for iterative solvers in FE elastostatics
45	Adaptive control for finite element analysis in plasticity
61	A hierarchical adaptive finite element strategy for elastic-plastic problems
73	Remarks on partial selective reduced integration method for Reissner-Mindlin plate problem
79	Improved eigenfrequencies and eigenmodes in free vibration analysis
91	Built-in field equations for patch recovery procedures using weighted residuals
119	Polynomial representations for patch recovery procedures
147	Analysis of the elastic-plastic problem involving finite plastic strain using the boundary element method
161	Modified Overhauser elements for approximation of boundary densities in regularized BEM formulations
177	Simulation of the Duffing-oscillator with time-varying mass by a BEM in time
187	Funicular analysis of masonry vaults
199	An improved transformation for universal serendipity elements
207	Numerical implementation of hybrid-Trefftz displacement elements
227	Admissible fields and error estimation for acoustic FEA with low wavenumbers
239	Vibration control of beam-plates with bonded piezoelectric sensors and actuators
	33 45 61 73 79 91 119 147 161 177 187 199 207 227

Contents

L. Champaney, J. Y. Cognard and P. Ladèveze	249	Modular analysis of assemblages of three- dimensional structures with unilateral contact conditions
B. Burgardt and P. Cartraud	267	Continuum modeling of beamlike lattice trusses using averaging methods
H. Alaylioglu and A. Alaylioglu	281	Finite element and experimental bases of a practical bridge management and maintenance system
E. J. O'Brien and D. L. Keogh	295	A discussion on neutral axis location in bridge deck cantilevers
B. M. Lehane, D. L. Keogh and E. J. O'Brien	303	Simplified elastic model for restraining effects of backfill soil on integral bridges
J. W. Bull and C. H. Woodford	315	The effects of camouflets on subgrade surface support
J. S. Kuang and C. K. Chau	327	Dynamic behaviour of stiffened coupled shear walls with flexible bases
J. W. Bull and C. H. Woodford	341	The numerical modelling of crater repairs in airfield runways
M. B. Fuchs, M. Paley and E. Miroshny	355	The Aboudi micromechanical model for topology design of structures
S. Manoharan and S. Shanmuganathan	363	A comparison of search mechanisms for structural optimization
E. S. Kameshki and S. Syngellakis	373	Inelastic stability of rectangular frames by transfer matrices
A. V. Singh	385	Free vibration analysis of deep doubly curved sandwich panels
J. M. Bourinet and D. Le Houédec	395	A dynamic stiffness analysis of damped tubes filled with granular materials
J. S. Moita, C. M. M. Soares and C. A. M. Soares	407	Buckling and dynamic behaviour of laminated composite structures using a discrete higher-order displacement model
B. Jurkiewiez, JF. Destrebecq and A. Vergne	425	Incremental analysis of time-dependent effects in composite structures
Q-L. Zhang and U. Peil	437	Dynamic behaviours of cables in parametrically unstable zones

		Contents
G. D. Gounaris and N. K. Anifantis	445	Structural damping determination by finite element approach
C. T. F. Ross, M. W. Taylor, W. D. Richards and A. P. F. Little	453	Vibration of varying thickness circular cylinders under uniform external water pressure
P. Venini and C. Mariani	465	Reliability as a measure of active control effectiveness
S. Glodež, Z. Ren and J. Flašker	475	Surface fatigue of gear teeth flanks
A. Mokhtar-zadeh and A. Kaveh	485	Optimal plastic analysis and design of frames: graph theoretical methods
A. Kaveh and A. Mokhtar-zadeh	497	Bandwidth optimization for rectangular matrices
A. Kaveh and G. R. Roosta	511	Cycle bases of graphs for sparse flexibility matrices
B. H. V. Topping and B. Cheng	519	Parallel and distributed adaptive quadrilateral mesh generation
B. Kiss and A. Krebsz	537	On the Schur component preconditioners
J. P. B. Leite and B. H. V. Topping	545	Parallel simulated annealing for structural optimization
	1	Calendar
		NUMBER 6
GQ. Li, KC. Hao, Y. Lu and SW. Chen	565	A flexibility approach for damage identification of cantilever-type structures with bending and shear deformation
J. Ch. Ermopoulos	573	Buckling length of non-uniform members under stepped axial loads
P. Fernandes, J. M. Guedes and H. Rodrigues	583	Topology optimization of three-dimensional linear elastic structures with a constraint on "perimeter"
L. P. Li, G. Cederbaum and K. Schulgasser	595	A finite element model for poroelastic beams with axial diffusion
You-qun Zhao, Zhong-sheng Liu, Su-huan Chen and	609	An accurate modal truncation method for eigenvector derivatives

P. Boisse, S. Perrin, 615 Error estimation through the constitutive relation for

Reissner-Mindlin plate bending finite elements

Gui-yu Zhang

G. Coffignal and K. Hadjeb

S. Tizzi

- 629 Free frequencies and modal shapes of cylindrical vibrating composite structures
 - I Calendar

